

Product Texts

30% Glass Reinforced

ISO 1043 PA66-GF30

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Thermal conductivity of melt	0.172	W/(m K)	-
^[C] Spec. heat capacity of melt	2170	J/(kg K)	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	10000 / 7500	MPa	ISO 527
^[C] Stress at break	205 / 140	MPa	ISO 527
^[C] Strain at break	3.6 / 5	%	ISO 527
^[C] Charpy impact strength, +23°C	80 / 100	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	70 / 70	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	12 / 20	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	10 / 10	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	260 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	245 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	260 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	20 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	70 / *	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-
Yellow Card available	yes / *	-	-
^[C] Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	3.0 / *	mm	-
Yellow Card available	yes / *	-	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	3.8 / 11	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3.5 / 4.6	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	90 / 1400	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	160 / 1000	E-4	IEC 62631-2-1
^[C] Volume resistivity	1E13 / 1E11	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E14	Ohm	IEC 62631-3-2
^[C] Electric strength	30 / 25	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600 / 600	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	6 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.6 / *	%	Sim. to ISO 62
^[C] Density	1360 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Akulon® S223-G6

PA66-GF30

Envalior

Processing

Injection Molding

Additives

Release agent

Delivery form

Pellets

Regional Availability

North America, Europe, Asia Pacific

Other text information

Injection molding

[Injection Molding Recommendations](#)

[Steel recommendations for molds screws and barrels](#)

[Trouble shooting guideline for injection molding](#)